

miProfile™ Human miRNome miRNA qPCR Array

For high-throughput profiling of human miRNA whole genome expression

Cat. No. PAM-HG96-A (19 x 96-well plate, Format A)
Cat. No. PAM-HG96-B (19 x 96-well plate, Format B)
Cat. No. PAM-HG96-C (19 x 96-well plate, Format C)
Cat. No. PAM-HG96-D (19 x 96-well plate, Format D)
Cat. No. PAM-HG96-E (19 x 96-well plate, Format E)

Available as 2 sets or 4 sets

Introduction

The miProfile human miRNome miRNA PCR arrays are a set of nineteen 96-well plates, covering 1,565 of best characterized and annotated miRNAs based on miRBase V17. Each 96-well plate contains up to 84 pairs of PCR primers (forward: miRNA-specific primer; reverse: universal primer), which are pre-deposited in each well. Each plate also designated 12 control wells for monitoring the efficiency of every step of the experiment - from reverse transcription to qPCR reaction.

- PAM-HG96 plate 01: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 02: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 03: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 04: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 05: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 06: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 07: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 08: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 09: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 10: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 11: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 12: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 13: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 14: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 15: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 16: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 17: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 18: 84 unique miRNA PCR primer pairs
- PAM-HG96 plate 19: 53 unique miRNA PCR primer pairs

Shipping and storage condition

Shipped at room temperature

Stable for at least 6 months when stored at -20°C

Materials required but not provided

All-in-One™ miRNA First-Strand cDNA Synthesis Kit

All-in-One™ qPCR Mix

Small/total RNA extraction kit

DNase/RNase free tips, PCR reaction tubes, 1.5 ml microcentrifuge tubes

5 ml and 10 ml graduated pipettes, beakers, flasks, and cylinders

10 µl to 1,000 µl adjustable single channel micropipettes with disposable tips

5 µl to 20 µl adjustable multichannel micropipette, disposable tips, and reservoir

qPCR instrument, compatible with miRNA qPCR arrays ordered

Array format

GeneCopeia provides five qPCR array formats (A, B, C, D, and E) suitable for use with the following real-time cyclers.

Important note: Upon receiving, please check to make sure that the correct array format was ordered to ensure the compatibility with your qPCR instrument.

Plate format	Instrument provider	qPCR instrument model
A (96-well)	Applied Biosystems	5700, 7000, 7300, 7500, 7700, 7900HT (Standard 96-well block), ViiA TM 7 (Standard 96-well block)
B (96-well)	Applied Biosystems	7500 (Fast block), 7900HT (Fast block), StepOnePlus TM , ViiA TM 7 (Fast block)
C (96-well)	Bio-Rad Laboratories	iCycler iQ [®] , MyiQ TM , iQ TM 5
D (96-well)	Bio-Rad Laboratories	CFX96 TM , DNA Engine Opticon TM , DNA Engine Opticon 2 TM , Chromo4 TM
E (96-well)	Roche Applied Science	LightCycler [®] 480 (96-well block)

Array layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	1	2	3	4	5	6	7	8	9	10	11	12
B	13	14	15	16	17	18	19	20	21	22	23	24
C	25	26	27	28	29	30	31	32	33	34	35	36
D	37	38	39	40	41	42	43	44	45	46	47	48
E	49	50	51	52	53	54	55	56	57	58	59	60
F	61	62	63	64	65	66	67	68	69	70	71	72
G	73	74	75	76	77	78	79	80	81	82	83	84
H	NC	NC	HK1	HK2	HK3	HK4	HK5	HK6	RT	RT	PCR	PCR

Figure 1. Illustration of miProfile miRNA qPCR array layout (96-well plate)

miRNA primer pairs: Wells 1-84 are designated wells for pre-deposited miRNA primer pairs.

NC: Negative controls, which only have the pre-deposited reverse universal primers

HK1-6: Six pre-deposited housekeeping snRNAs primer pairs, which can be used as endogenous positive controls as well as for array normalization.

RT: Three replicates of spike-in reverse transcription controls, which can be used to monitor the efficiency of the RT reaction. These pre-deposited primer pairs specifically amplify the cDNA template reversed transcribed from the spike-in exogenous RNA in the sample.

PCR: Three replicates of positive PCR controls, which are used to verify the PCR efficiency by amplifying the pre-deposited DNA template with its specific pre-deposited primer pairs.

miRNA primer list

The miRNA primer list can be downloaded from <http://www.genecopoeia.com/product/qpcr-arrays/mirna/mirnome.php>

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